

ABSTRACT

In a first aspect, a first method is provided. The first method includes the steps of (1) receiving a set of data; (2) determining whether a free group entry of a size required by a portion of the set of data exists in one of a plurality of sections of a memory; (3) if a free group entry of the size required by the portion of the set of data does not exist in one of the plurality of sections of the memory, determining whether the memory includes one or more sections of an unallocated size; and (4) if the memory includes one or more sections of an unallocated size, allocating one of the sections of an unallocated size to the size required by the portion of the set of data thereby creating a section of a dynamically allocated size. Numerous other aspects are provided.